



Performance Curves

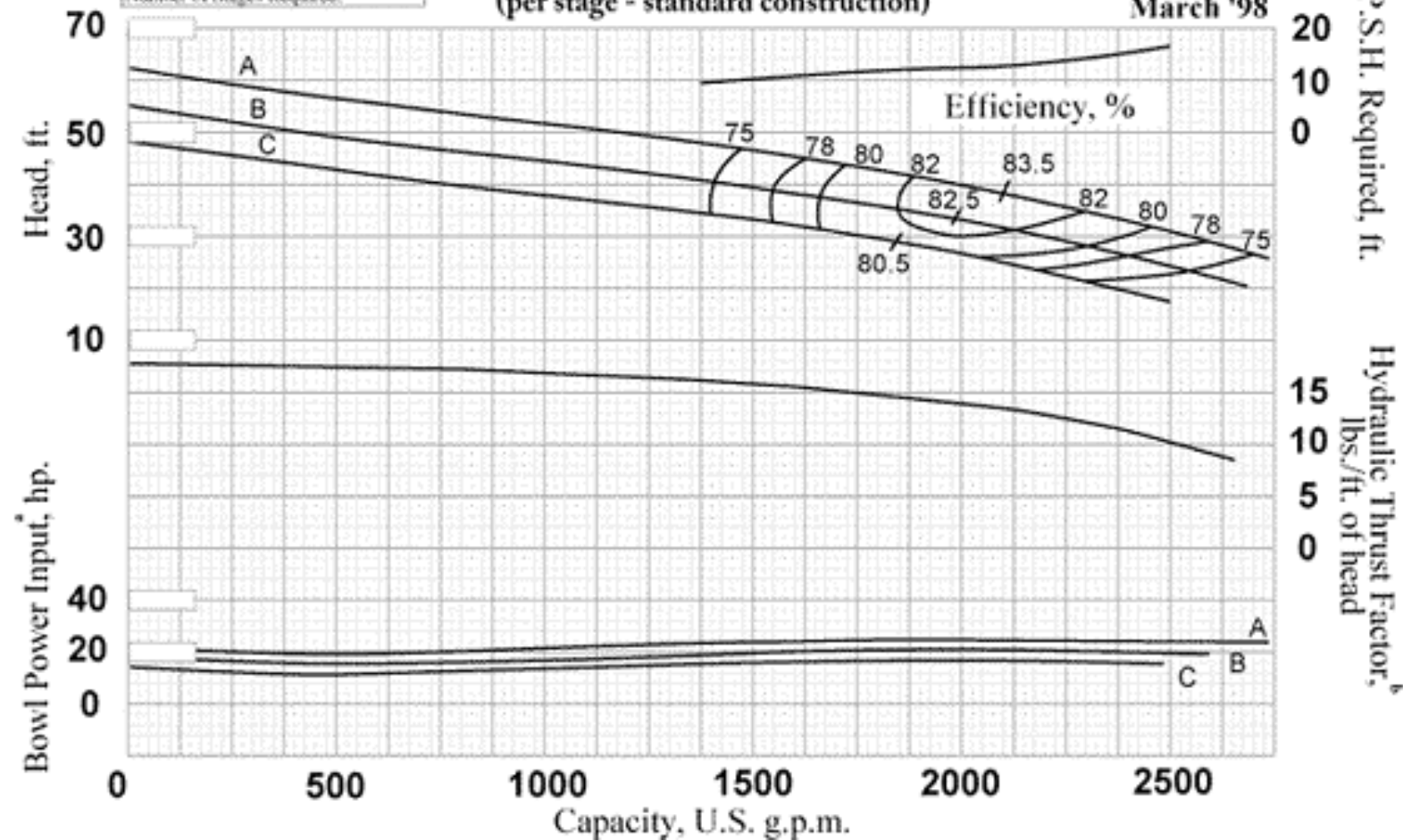
14-M-320

1170 RPM

Number of Stages Required:

(per stage - standard construction)

March '98



14-M-320 1170 RPM

Impeller Data						Bowl Data	
Impeller Model	14-M-320					Bowl Model	14-M
Type	Enclosed					Connection Type	Bolted
Diameter: A=	11.615"					Outside Diameter: nominal	14.562"
B=	11.115"					minimum	14.300"
C=	10.615"					Column Pipe Size: minimum	10"
Hydraulic Thrust Factor	13.3 lbs/ft of head @ peak efficiency					maximum	12"
Impeller Weight	27.3#					Suction Pipe Size	12"
Number of Vanes	7					Shaft Size: standard	2.187"
Specific Speed (Ns)	3556					maximum	Consult Factory
Effective Eye Area	41.6 in²					Lateral: standard	1.000"
W (r sq.)	2.300 lbs -ft²					maximum	Consult Factory
Eye Fluid Velocity	0.01 ft/sec/gpm					Shaft Bearing Clearance	0.010"
Peripheral Velocity	5.11 ft/sec/inch of impeller diameter					Impeller Skirt Clearance	0.015"
						Maximum Sphere Size	1.000"
Efficiency Correction for Impeller Data						*Maximum Head @ 1.0 s.g.:	
Number of Stages	1	2	3	4	5+	with nominal outside dia.	533 ft
Deduct No. Points	4	3	2	1	0	with minimum outside dia.	512 ft

Lengths		Operational	
Column Adapter	1.500"	Minimum Required Submergence	Consult Factory
Discharge Case	5.375"	Standard Construction Materials	
Bowl	13.375"	Bowl	A48-30 c.i. (porcelain)
Suction Case	11.875"	Impeller	C83800 br.
Suction Bell	9.625"	Bowl Shaft	416 stainless steel
Submersible Motor Adapter	Consult Factory	Shaft Coupling	C1215 steel
Approximate Shipping Weights		Lock Collet	C1215 steel
First Stage	405#	Cap Screw	grade 5
Additional Stage	163#	Bowl Bearing	C93200 br./buna-N A40
		Suction/Submersible Motor Adapter Bearing	C93200 br.
Miscellaneous		Throttle Bearing	C93200 br.
Hub Projection on Bell Suction	1.000"	Sand Collar	C93200 br.
Cable Guard Height	0.500"	Column Adapter/Discharge Case/Suction Case	A48-30 c.i.
Distance from Impeller Eye to Bottom of Bell Suction	9.500"	Submersible Motor Adapter	A48-30 c.i.
		Tube Adapter	cl. 65-45-12 ductile iron

* Not valid for submersible applications -- o-rings required if the maximum operating head will exceed 500'